Flood risk management
Risk from flooding is a challenge to societal prosperity (SDG13); climate change and urbanisation are exacerbating it further; the need to adopting integrated flood risk management, which aims to reduce the human and socio-economic losses caused by flooding; the need to understand and apply advances in technology to improve model-based decision making. The module introduces the main principles of risk and vulnerability related to floods and consequently the management of the related risk; understanding the development of the phenomena of flood in order to know how to build simulation models; understanding of the main principles of forecasting and warning, supported by monitoring and open source data and tools; conceptualization of flood and drought risk mapping practices; familiarization with the EU Flood Directive and flood risk management practices in European countries. Adaptation strategies to these two types of extreme events will be explained.